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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/037,497 | 01/02/2002 | Paul W. Dent | 4015-1743 | 6275 |

27045 7590 03/03/2005

ERICSSON INC.
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EXAMINER

LE, DANH C

| ART UNIT | PAPER NUMBER |
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2683

DATE MAILED: 03/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/037,497

Applicant(s)

DENT, PAUL W.

Examiner

DANH C LE

Art Unit

2683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 October 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 and 36-39 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 and 36-39 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1, 2, 5-10, 13-16, 19-20, 36-38 are rejected under 35 U.S.C. 102(e) as being anticipated by Kundaje (2003/0224816).

As to claim 1, Kundaje teaches a method of providing multi-extension functionality to a group of mobile terminals in a wireless communication network (figure 1), comprising:

receiving a call at a switching center (40) directed to a common number shared by two or more mobile terminals (21-23), and
connecting said call to at least one of said mobile terminals (21-23).

As to claim 2, Kundaje teaches the method of claim 1 wherein connecting said call to at least one of said mobile terminals (figure 2, 133) comprises:

selecting one or more mobile terminals sharing said common number, and
connecting said call to said selected mobile terminals.

As to claim 5, Kundaje teaches the method of claim 1 wherein connecting said call to at least one of said mobile terminals comprises establishing a group call involving two or more mobile terminals (21-23).

As to claim 6, Kundaje teaches the method of claim 1 further comprising:
maintaining a subscriber database (figure 1, 32) accessible to said switching center for storing said common number shared by two or more mobile terminals, wherein said switching center accesses said subscriber database to identify said mobile terminals.

As to claim 7, Kundaje teaches the method of providing multi-extension functionality to a group of mobile terminals in a wireless communication network (figure 1), comprising;

receiving a call at a switching center (41) directed to a called number; and
determining whether the called number is a common number shared by two or more mobile terminals (21-23).

As to claim 8, Kundaje teaches the method of claim 7 further comprising storing subscriber phone numbers in a subscriber database, said database further including data indicating whether a subscriber phone number is a common number, and using said subscriber database to determine whether the called number is a common number shared by two or more mobile terminals (paragraph 0021).

As to claim 9, Kundaje teaches the method of claim 7 further comprising, if said called number is a common number, connecting said call to at least one mobile terminal sharing said common number (paragraph 0003, 0034).

Art Unit: 2683

As to claim 10, Kundaje teaches the method of claim 9 wherein connecting said call to at least one mobile terminal sharing said common number comprises:

selecting one or more mobile terminals sharing said common number; and
connecting said call to said selected mobile terminals (paragraph 0030).

As to claim 13, Kundaje teaches the method of claim 9 wherein connecting said call to at least one mobile terminal sharing said common number comprises establishing a group call involving two or more mobile terminals (paragraph 0030).

As to claim 14, Kundaje teaches the method of claim 7 further comprising:
maintaining a subscriber database accessible to said switching center for storing said common number shared by two or more mobile terminals, wherein said switching center accesses said subscriber database to identify said mobile terminals (paragraph 0021).

As to claim 15, Kundaje teaches a method of providing multi-extension functionality to a group of mobile terminals in a wireless communication network (figure 1), comprising;

storing subscriber phone numbers in a subscriber database (32), said subscriber database including data indicating whether a subscriber phone number is a common number shared by two or more mobile terminals;

determining whether a called number associated with a call is a common number (41) shared by two or more mobile terminals (21-23); and

connecting calls directed to a common number to at least one mobile terminal associated with the common number (21-23),

Art Unit: 2683

As to claim 16, Kundaje teaches the method of claim 15 wherein connecting calls directed to a common number to at least one mobile terminal associated with the common number (paragraph 0023, 0024) comprises:

selecting one or more mobile terminals sharing said common number; and
connecting said call to said selected mobile terminals.

As to claim 19, Kundaje teaches the method of claim 15 wherein connecting calls directed to a common number to at least one mobile terminal associated with the common number comprises establishing a group call involving two or more mobile terminals (21-23).

As to claim 20, Kundaje teaches the method of claim 15 (paragraph 0021) further comprising:

maintaining a subscriber database for storing said common number shared by two or more mobile terminals; and

accessing said subscriber database to identify said mobile terminals.

As to claim 36, Kundaje teaches a wireless communication network, comprising:
a database (32) storing subscriber information, said database storing at least one common number associated with a group of mobile terminals; and

a mobile switching center (40) operative to route calls to one of said mobile terminals in said group when a call is placed by a party to said common number.

As to claim 37, Kundaje teaches the network of claim 36 wherein said mobile switching center pages all available mobile terminals in said group, and routes said call to the first mobile terminal in said group to answer (call initiate notification 122).

Art Unit: 2683

As to claim 38, Kundaje teaches the network of claim 36 wherein said mobile switching center calls all available mobile terminals in said group, and routes said call to all mobile terminals in said group to answer, forming a conference call (paragraph 0030).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 3, 4, 11, 12, 17, 18, 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kundaje in view of Topol (US 6,792,291).

As to claims 3, 11 and 17, Kundaje teaches the method of claim 2 wherein selecting one or more mobile terminals sharing said common number comprises connecting a caller to at least one mobile terminal sharing said common number, receiving the caller's connection; and connecting said call to the mobile terminal by the caller. Kundaje fails to teach connecting the caller with the mobile terminal by caller selection. Topol teaches connecting the caller with the mobile terminal by caller selection (col.2, line 57-col.3, line 33). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Topol into the system of Kundaje in order to enhance system performance of the wireless auto-conferencing in which the call can choose the party he likes.

Art Unit: 2683

As to claims 4, 12, 18, Kundaje teaches the method of claim 4 further comprising establishing a group call if the caller selects two or more mobile terminals (21-23).

As to claim 39, the combination of Kundaje and Topol teaches the method of claim 36 wherein said mobile switching center prompts said party to select a mobile terminal from said group, and routes said call to the selected mobile terminal (col.2, line 57-col.3, line 33).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

A. Kikuta et al (US 2002/0077129) teaches mobile communication method and mobile communication system.

B. Ohmoto (US 2002/0028678) teaches mobile wireless terminal system with simultaneous transmission function.

C. Siemens (US 2002/0068552) teaches hierarchical control system with selective broadcast audio messaging system.

D. Khan (US 2003/0104825) teaches telephone system paging system and method.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANH C LE whose telephone number is 703-306-0542. The examiner can normally be reached on 8:00AM-5:00PM.

Art Unit: 2683

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, WILLIAM TROST can be reached on 703-308-5318. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'danh', is written over a horizontal line.

Danh C. Le

DANH CONG LE
PATENT EXAMINER